Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-11. (Canceled)

antibodies),

12. (Currently Amended) A composition comprising:at least one antibody selected from the group consisting of:

anti-multiple sclerosis-associated retrovirus/human endogenous
retrovirus-W envelope protein soluble fraction antibodies (anti-MSRV/HERV-W Env-SU

anti-toll-like receptor 4 (anti-TLR4) antibodies capable of binding specifically to the TLR4 receptor for the soluble fraction of the MSRV/HERV-W Env protein, and

mixtures thereof, and

a pharmaceutically acceptable carrier;

wherein-said the soluble fraction of the MSRV/HERV-W Env protein comprises the sequence set forth in SEQ ID NO:3 and-said the at least one antibody inhibits an interaction between said the soluble fraction of the MSRV/HERV-W Env protein and-said the TLR4 receptor causing the pro-inflammatory cascade induced by the activation of MSRV/HERV-W.

- 13. (Previously Presented) The composition of claim 12, further comprising a pharmaceutically acceptable vector.
- 14. (Withdrawn) The composition of claim 12, wherein the at least one antibody comprises at least one anti-MSRV/HERV-W Env-SU antibody and at least one anti-TLR4 antibody capable of binding specifically to the TLR4 receptor for the soluble fraction of the MSRV/HERV-W Env protein.

- 15. (Withdrawn) The composition of claim 12, wherein the anti-MSRV/HERV-W Env-SU antibody is selected from the group consisting of: 3B2H4, 13H5A5, and 3H10F10, and wherein the anti-TLR4 antibody is HTA125.
- 16. (Currently Amended) A method of treating a pathology-associated with MSRV/HERV-W selected from the group consisting of multiple sclerosis and schizophrenia, the method comprising administering to an individual having-said the pathology the composition of claim 12, wherein the at least one antibody is present in an amount sufficient to inhibit the pro-inflammatory caseade induced by the activation of MSRV/HERV-W.
 - 17. (Canceled)
- 18. (Currently Amended) A method of inhibiting an interaction between a soluble fraction of a multiple sclerosis-associated retrovirus/human endogenous retrovirus-W envelope protein (MSRV/HERV-W Env protein) and a TLR4 (toll-like receptor 4) receptor (TLR4) for said the soluble fraction, said interaction causing the pro-inflammatory cascade induced by the activation of MSRV/HERV-W, the method comprising:

administering to an individual in need thereof a composition comprising at least one antibody selected from the group consisting of: anti-MSRV/HERV-W Env-SU antibodies, anti-TLR4 antibodies capable of binding specifically to said soluble fraction of the MSRV/HERV-W Env protein, anti-TLR4 antibodies capable of binding specifically to said TLR4 receptor, and mixtures thereof, and a pharmaceutical carrier;

wherein-said the soluble fraction of the MSRV/HERV-W Env protein comprises the sequence set forth in SEQ ID NO:1.

19. (Withdrawn) The method of claim 18, wherein the at least one antibody comprises at least one anti-MSRV/HERV-W Env-SU antibody and at least one anti-TLR4 antibody capable of binding specifically to the soluble fraction of the MSRV/HERV-W Env

protein or anti-TLR4 antibody capable of binding specifically to the TLR4 receptor for the soluble fraction of the MSRV/HERV-W Env protein.

- 20. (Withdrawn) The method of claim 18, wherein the anti-MSRV/HERV-W Env-SU antibody is selected from the group consisting of: 3B2H4, 13H5A5, and 3H10F10, and wherein the anti-TLR4 antibody is HTA125.
 - 21. (Canceled)
- 22. (Previously Presented) An antibody capable of specifically binding to a region selected from the group consisting of:

amino acid residues 122–131 of SEQ ID NO:3; amino acid residues 312–316 of SEQ ID NO:3; and amino acid residues 181–186 of SEQ ID NO:3.

23. (Currently Amended) The antibody according to claim 22, wherein the antibody is produced by a culture of hybridomas from mice cells after immunization with a soluble fraction of a multiple sclerosis-associated retrovirus/human endogenous retrovirus-W envelope protein (MSRV/HERV-W Env protein), wherein-said the soluble fraction comprises the sequence set forth in SEQ ID NOs: 1 or 3.